

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. An extruding apparatus which extrudes continuous length of hollow plastic product, said apparatus
5 comprising an extruder which feeds molten plastic through die equipment to a mold tunnel formed by side by side moving mold blocks, the plastic product being shaped within the mold tunnel, said apparatus including means to provide air turbulence to assist in setting shape of the
10 product, said means comprising a powered air moving member which is located internally of the product in the mold tunnel, a power source for powering said air moving member, said power source being located externally of the mold tunnel, and a power transfer which feeds from said
15 power source through said die equipment to said air moving member.
2. An extruding apparatus as claimed in Claim 1 wherein said apparatus comprises a vacuum forming plastic
20 pipe extruder including a cooling plug within the mold tunnel, the product comprising a hollow pipe shaped between the mold blocks and the cooling plug, said air moving member being located downstream of and adjacent to the cooling plug, said power transfer feeding through the
25 cooling plug to the air moving member.
3. An extruding apparatus as claimed in Claim 1 wherein said air moving member comprises a rotor.
- 30 4. An extruding apparatus as claimed in Claim 3 wherein said rotor comprises a bladed wheel.
5. An extruding apparatus as claimed in Claim 3 wherein said rotor comprises a plurality of blades having
35 inner and outer blade portions, each of said blades being mounted at said inner blade portions to a common mounting

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shaft for rotating said blades, said inner and outer blade portions being arranged such that said outer blade portions provide greater positive air pressure than said inner portions to produce a low pressure air draw at said inner blade portions.

6. An extruding apparatus as claimed in Claim 5 wherein said mold tunnel has an open downstream end, the positive air pressure produced by said rotor causing an exhausting of air along the pipe through the downstream end of the tunnel, the low air pressure air draw providing fresh make up air to be drawn into the tunnel through the downstream end of the tunnel.

7. An extruding apparatus as claimed in Claim 3 wherein said transfer member comprises a rotary shaft extending through said die equipment and the cooling plug to said rotor.

8. An extruding apparatus as claimed in Claim 7 including a motor for rotating said shaft, said motor being located externally of said die equipment and receiving power from an electrical power source.

9. An extruding apparatus as claimed in Claim 3 including a motor for turning said rotor, said motor being coupled with rotor in said mold tunnel, said transfer member comprising a an electrical power cord running through said die equipment and said cooling plug from a source of electric power to said motor.

10. An extruding apparatus as claimed in Claim 3 wherein said rotor is driven by a water turbine adjacent said rotor in said mold tunnel, said transfer member comprising a flow channel through said die equipment and said cooling plug, send flow channel delivery water under

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pressure from a source of pressurized water externally of said die equipment to said water turbine.

11. An extruding apparatus a claimed in Claim 3
5 including a water supply for adding water to the air moved internally of the pipe by said air moving member.

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